# Sarah Jane Roberts-Thomson

## List of Publications by Year in Descending Order



| | | | |
|---|---|---|---|
| 95 papers | 4,598 citations | 40 h-index | 66 g-index |
| 101 ext. papers | 5,154 ext. citations | 6.2 avg, IF | 5.53 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 95 | Uncoiling the link between STIM1 and metastatic pathways in estrogen receptor negative breast cancer cells.. *Cell Calcium*, **2022**, 103, 102563 | 4 | |
| 94 | Increased matrix stiffness suppresses ATP-induced sustained Ca influx in MDA-MB-231 breast cancer cells.. *Cell Calcium*, **2022**, 104, 102569 | 4 | 2 |
| 93 | ORAI1 regulates sustained cytosolic free calcium fluctuations during breast cancer cell apoptosis and apoptotic resistance via a STIM1 independent pathway.. *FASEB Journal*, **2022**, 36, e22108 | 0.9 | 3 |
| 92 | ORAI1-Regulated Gene Expression in Breast Cancer Cells: Roles for STIM1 Binding, Calcium Influx and Transcription Factor Translocation. *International Journal of Molecular Sciences*, **2022**, 23, 5867 | 6.3 | 1 |
| 91 | Altered Calcium Influx Pathways in Cancer-Associated Fibroblasts. *Biomedicines*, **2021**, 9, | 4.8 | 1 |
| 90 | Assessment of doxorubicin-induced remodeling of Ca signaling and associated Ca regulating proteins in MDA-MB-231 breast cancer cells. *Biochemical and Biophysical Research Communications*, **2020**, 522, 532-538 | 3.4 | 1 |
| 89 | Activation of the Ion Channel TRPV4 Induces Epithelial to Mesenchymal Transition in Breast Cancer Cells. *International Journal of Molecular Sciences*, **2020**, 21, | 6.3 | 8 |
| 88 | NCS-1 expression is higher in basal breast cancers and regulates calcium influx and cytotoxic responses to doxorubicin. *Molecular Oncology*, **2020**, 14, 87-104 | 7.9 | 4 |
| 87 | Differential engagement of ORAI1 and TRPC1 in the induction of vimentin expression by different stimuli. *Laboratory Investigation*, **2020**, 100, 224-233 | 5.9 | 2 |
| 86 | The Calcium-Signaling Toolkit in Cancer: Remodeling and Targeting. *Cold Spring Harbor Perspectives in Biology*, **2019**, 11, | 10.2 | 33 |
| 85 | ORAI1 and ORAI3 in Breast Cancer Molecular Subtypes and the Identification of ORAI3 as a Hypoxia Sensitive Gene and a Regulator of Hypoxia Responses. *Cancers*, **2019**, 11, | 6.6 | 29 |
| 84 | Calcium signalling and breast cancer. *Seminars in Cell and Developmental Biology*, **2019**, 94, 74-83 | 7.5 | 36 |
| 83 | Assessment of cytosolic free calcium changes during ceramide-induced cell death in MDA-MB-231 breast cancer cells expressing the calcium sensor GCaMP6m. *Cell Calcium*, **2018**, 72, 39-50 | 4 | 12 |
| 82 | Assessment of the TRPM8 inhibitor AMTB in breast cancer cells and its identification as an inhibitor of voltage gated sodium channels. *Life Sciences*, **2018**, 198, 128-135 | 6.8 | 18 |
| 81 | An automated epifluorescence microscopy imaging assay for the identification of phospho-AKT level modulators in breast cancer cells. *Journal of Pharmacological and Toxicological Methods*, **2018**, 92, 13-19 | 1.7 | 3 |
| 80 | Assessment of CXC ligand 12-mediated calcium signalling and its regulators in basal-like breast cancer cells. *Oncology Letters*, **2018**, 15, 4289-4295 | 2.6 | 6 |
| 79 | Pharmacological inhibition of store-operated calcium entry in MDA-MB-468 basal A breast cancer cells: consequences on calcium signalling, cell migration and proliferation. *Cellular and Molecular Life Sciences*, **2018**, 75, 4525-4537 | 10.3 | 27 |

| | | | |
|---|---|---|---|
| 78 | TRPC1 is a differential regulator of hypoxia-mediated events and Akt signalling in PTEN-deficient breast cancer cells. *Journal of Cell Science*, **2017**, 130, 2292-2305 | 5.3 | 59 |
| 77 | The calcium-cancer signalling nexus. *Nature Reviews Cancer*, **2017**, 17, 367-380 | 31.3 | 241 |
| 76 | Oncosis and apoptosis induction by activation of an overexpressed ion channel in breast cancer cells. *Oncogene*, **2017**, 36, 6490-6500 | 9.2 | 50 |
| 75 | Hypoxia-induced reactive oxygen species mediate N-cadherin and SERPINE1 expression, EGFR signalling and motility in MDA-MB-468 breast cancer cells. *Scientific Reports*, **2017**, 7, 15140 | 4.9 | 71 |
| 74 | The calcium pump plasma membrane Ca(2+)-ATPase 2 (PMCA2) regulates breast cancer cell proliferation and sensitivity to doxorubicin. *Scientific Reports*, **2016**, 6, 25505 | 4.9 | 40 |
| 73 | The voltage gated Ca(2+)-channel Cav3.2 and therapeutic responses in breast cancer. *Cancer Cell International*, **2016**, 16, 24 | 6.4 | 24 |
| 72 | Altered purinergic receptor-Ca□+ signaling associated with hypoxia-induced epithelial-mesenchymal transition in breast cancer cells. *Molecular Oncology*, **2016**, 10, 166-78 | 7.9 | 61 |
| 71 | Differential effects of two-pore channel protein 1 and 2 silencing in MDA-MB-468 breast cancer cells. *Biochemical and Biophysical Research Communications*, **2016**, 477, 731-736 | 3.4 | 17 |
| 70 | Janus kinases and Src family kinases in the regulation of EGF-induced vimentin expression in MDA-MB-468 breast cancer cells. *International Journal of Biochemistry and Cell Biology*, **2016**, 76, 64-74 | 5.6 | 7 |
| 69 | PMCA2 silencing potentiates MDA-MB-231 breast cancer cell death initiated with the Bcl-2 inhibitor ABT-263. *Biochemical and Biophysical Research Communications*, **2016**, 478, 1792-7 | 3.4 | 14 |
| 68 | Estrogen modulation properties of mangiferin and quercetin and the mangiferin metabolite norathyriol. *Food and Function*, **2015**, 6, 1847-54 | 6.1 | 16 |
| 67 | A role for calcium in the regulation of ATP-binding cassette, sub-family C, member 3 (ABCC3) gene expression in a model of epidermal growth factor-mediated breast cancer epithelial-mesenchymal transition. *Biochemical and Biophysical Research Communications*, **2015**, 458, 509-514 | 3.4 | 22 |
| 66 | Essential role of Orai1 store-operated calcium channels in lactation. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 5827-32 | 11.5 | 70 |
| 65 | Mango Fruit Extracts Differentially Affect Proliferation and Intracellular Calcium Signalling in MCF-7 Human Breast Cancer Cells. *Journal of Chemistry*, **2015**, 2015, 1-10 | 2.3 | 10 |
| 64 | Polyphenolic contents and the effects of methanol extracts from mango varieties on breast cancer cells. *Food Science and Biotechnology*, **2015**, 24, 265-271 | 3 | 15 |
| 63 | Phytochemical extraction, characterisation and comparative distribution across four mango (Mangifera indica L.) fruit varieties. *Food Chemistry*, **2014**, 149, 253-63 | 8.5 | 51 |
| 62 | Consequences of activating the calcium-permeable ion channel TRPV1 in breast cancer cells with regulated TRPV1 expression. *Cell Calcium*, **2014**, 56, 59-67 | 4 | 50 |
| 61 | Induction of epithelial-mesenchymal transition (EMT) in breast cancer cells is calcium signal dependent. *Oncogene*, **2014**, 33, 2307-16 | 9.2 | 232 |

| | | | |
|---|---|---|---|
| 60 | Calcium influx pathways in breast cancer: opportunities for pharmacological intervention. *British Journal of Pharmacology*, **2014**, 171, 945-60 | 8.6 | 97 |
| 59 | Assessment of gene expression of intracellular calcium channels, pumps and exchangers with epidermal growth factor-induced epithelial-mesenchymal transition in a breast cancer cell line. *Cancer Cell International*, **2013**, 13, 76 | 6.4 | 50 |
| 58 | Assessment of ORAI1-mediated basal calcium influx in mammary epithelial cells. *BMC Cell Biology*, **2013**, 14, 57 | | 15 |
| 57 | Mitochondrial calcium uniporter silencing potentiates caspase-independent cell death in MDA-MB-231 breast cancer cells. *Biochemical and Biophysical Research Communications*, **2013**, 434, 695-700 | 2.4 | 65 |
| 56 | Effects of differentiation on purinergic and neurotensin-mediated calcium signaling in human HT-29 colon cancer cells. *Biochemical and Biophysical Research Communications*, **2013**, 439, 35-9 | 3.4 | 2 |
| 55 | Mango (Mangifera indica L.) peel extract fractions from different cultivars differentially affect lipid accumulation in 3T3-L1 adipocyte cells. *Food and Function*, **2013**, 4, 481-91 | 6.1 | 6 |
| 54 | Mango fruit peel and flesh extracts affect adipogenesis in 3T3-L1 cells. *Food and Function*, **2012**, 3, 828-36 | 6.1 | 23 |
| 53 | Non-stimulated, agonist-stimulated and store-operated Ca2+ influx in MDA-MB-468 breast cancer cells and the effect of EGF-induced EMT on calcium entry. *PLoS ONE*, **2012**, 7, e36923 | 3.7 | 69 |
| 52 | Calcium channel TRPV6 as a potential therapeutic target in estrogen receptor-negative breast cancer. *Molecular Cancer Therapeutics*, **2012**, 11, 2158-68 | 6.1 | 88 |
| 51 | Major Australian tropical fruits biodiversity: bioactive compounds and their bioactivities. *Molecular Nutrition and Food Research*, **2012**, 56, 357-87 | 5.9 | 30 |
| 50 | Calcium channels and pumps in cancer: changes and consequences. *Journal of Biological Chemistry*, **2012**, 287, 31666-73 | 5.4 | 259 |
| 49 | Distinct regulation of cytoplasmic calcium signals and cell death pathways by different plasma membrane calcium ATPase isoforms in MDA-MB-231 breast cancer cells. *Journal of Biological Chemistry*, **2012**, 287, 28598-608 | 5.4 | 53 |
| 48 | Peroxisome proliferator-activated receptor subtypes in mammary gland development and breast cancer. *Journal of Cancer Therapeutics & Research*, **2012**, 1, 14 | | 1 |
| 47 | Bioactivity of mango flesh and peel extracts on peroxisome proliferator-activated receptor  [PPAR]activation and MCF-7 cell proliferation: fraction and fruit variability. *Journal of Food Science* , **2011**, 76, H11-8 | 3.4 | 17 |
| 46 | Ion channels and transporters in cancer. 4. Remodeling of Ca(2+) signaling in tumorigenesis: role of Ca(2+) transport. *American Journal of Physiology - Cell Physiology*, **2011**, 301, C969-76 | 5.4 | 47 |
| 45 | Plasma membrane calcium ATPases and cancer. *BioFactors*, **2011**, 37, 132-8 | 6.1 | 14 |
| 44 | ORAI1-mediated calcium influx in lactation and in breast cancer. *Molecular Cancer Therapeutics*, **2011**, 10, 448-60 | 6.1 | 160 |
| 43 | Remodeling of purinergic receptor-mediated Ca2+ signaling as a consequence of EGF-induced epithelial-mesenchymal transition in breast cancer cells. *PLoS ONE*, **2011**, 6, e23464 | 3.7 | 46 |

| | | | |
|---|---|---|---|
| 42 | Golgi calcium pump secretory pathway calcium ATPase 1 (SPCA1) is a key regulator of insulin-like growth factor receptor (IGF1R) processing in the basal-like breast cancer cell line MDA-MB-231. *Journal of Biological Chemistry*, **2010**, 285, 37458-66 | 5.4 | 65 |
| 41 | Store-independent activation of Orai1 by SPCA2 in mammary tumors. *Cell*, **2010**, 143, 84-98 | 56.2 | 213 |
| 40 | Mango extracts and the mango component mangiferin promote endothelial cell migration. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 5181-6 | 5.7 | 45 |
| 39 | ORAI-mediated calcium entry: mechanism and roles, diseases and pharmacology. *Pharmacology & Therapeutics*, **2010**, 127, 121-30 | 13.9 | 55 |
| 38 | Plasma membrane calcium pumps and their emerging roles in cancer. *World Journal of Biological Chemistry*, **2010**, 1, 248-53 | 3.8 | 23 |
| 37 | Plasma membrane calcium ATPase 4 and the remodeling of calcium homeostasis in human colon cancer cells. *Carcinogenesis*, **2009**, 30, 1962-9 | 4.6 | 58 |
| 36 | Effects of the mango components mangiferin and quercetin and the putative mangiferin metabolite norathyriol on the transactivation of peroxisome proliferator-activated receptor isoforms. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 3037-42 | 5.7 | 41 |
| 35 | Localization of plasma membrane and secretory calcium pumps in the mammary gland. *Biochemical and Biophysical Research Communications*, **2008**, 369, 977-81 | 3.4 | 67 |
| 34 | Rapid, opioid-sensitive mechanisms involved in transient receptor potential vanilloid 1 sensitization. *Journal of Biological Chemistry*, **2008**, 283, 19540-50 | 5.4 | 43 |
| 33 | PPARalpha and PPARbeta are differentially affected by ethanol and the ethanol metabolite acetaldehyde in the MCF-7 breast cancer cell line. *Toxicological Sciences*, **2008**, 102, 120-8 | 4.4 | 6 |
| 32 | Mechanisms involved in potentiation of transient receptor potential vanilloid 1 responses by ethanol. *European Journal of Pain*, **2008**, 12, 441-54 | 3.7 | 19 |
| 31 | A model of experimental autoimmune encephalomyelitis (EAE) in C57BL/6 mice for the characterisation of intervention therapies. *Journal of Neuroscience Methods*, **2007**, 163, 245-54 | 3 | 51 |
| 30 | Calcium and cancer: targeting Ca2+ transport. *Nature Reviews Cancer*, **2007**, 7, 519-30 | 31.3 | 502 |
| 29 | Plasma membrane Ca2+-ATPase expression during colon cancer cell line differentiation. *Biochemical and Biophysical Research Communications*, **2007**, 355, 932-6 | 3.4 | 54 |
| 28 | Calcium transport and signaling in the mammary gland: targets for breast cancer. *Biochimica Et Biophysica Acta: Reviews on Cancer*, **2006**, 1765, 235-55 | 11.2 | 36 |
| 27 | The mu opioid agonist morphine modulates potentiation of capsaicin-evoked TRPV1 responses through a cyclic AMP-dependent protein kinase A pathway. *Molecular Pain*, **2006**, 2, 22 | 3.4 | 80 |
| 26 | Mono(2-ethylhexyl)phthalate and mono-n-butyl phthalate activation of peroxisome proliferator activated-receptors alpha and gamma in breast. *Toxicology Letters*, **2006**, 163, 224-34 | 4.4 | 45 |
| 25 | Isoform specific changes in PPAR alpha and beta in colon and breast cancer with differentiation. *Biochemical and Biophysical Research Communications*, **2006**, 340, 656-60 | 3.4 | 31 |

| | | | |
|---|---|---|---|
| 24 | Peroxisome proliferator-activated receptor alpha expression is regulated by estrogen receptor alpha and modulates the response of MCF-7 cells to sodium butyrate. *International Journal of Biochemistry and Cell Biology*, **2006**, 38, 255-66 | 5.6 | 17 |
| 23 | Novel Glyco-lipid-arsenicals (III) with Anti-proliferative Effects on MCF-7 Human Breast Cancer Cells **2006**, 365-366 | | |
| 22 | Anti-proliferative effects of novel glyco-lipid-arsenicals (III) on MCF-7 human breast cancer cells. *Medicinal Chemistry*, **2006**, 2, 79-87 | 1.8 | 10 |
| 21 | Plasma membrane calcium-ATPase 2 and 4 in human breast cancer cell lines. *Biochemical and Biophysical Research Communications*, **2005**, 337, 779-83 | 3.4 | 73 |
| 20 | Antisense-mediated Inhibition of the plasma membrane calcium-ATPase suppresses proliferation of MCF-7 cells. *Journal of Biological Chemistry*, **2005**, 280, 27076-84 | 5.4 | 35 |
| 19 | Effect of the peroxisome proliferator-activated receptor beta activator GW0742 in rat cultured cerebellar granule neurons. *Journal of Neuroscience Research*, **2004**, 77, 240-9 | 4.4 | 38 |
| 18 | Ratiometric and nonratiometric Ca2+ indicators for the assessment of intracellular free Ca2+ in a breast cancer cell line using a fluorescence microplate reader. *Journal of Proteomics*, **2004**, 58, 227-37 | | 22 |
| 17 | Effects of peroxisome proliferator-activated receptor gamma ligands ciglitazone and 15-deoxy-delta 12,14-prostaglandin J2 on rat cultured cerebellar granule neuronal viability. *Journal of Neuroscience Research*, **2003**, 72, 747-55 | 4.4 | 26 |
| 16 | Expression of plasma membrane calcium pump isoform mRNAs in breast cancer cell lines. *Cellular Signalling*, **2002**, 14, 1015-22 | 4.9 | 47 |
| 15 | Peroxisome proliferator-activated receptor alpha in the human breast cancer cell lines MCF-7 and MDA-MB-231. *Molecular Carcinogenesis*, **2002**, 34, 165-71 | 5 | 123 |
| 14 | Peroxisome proliferator-activated receptor beta expression in human breast epithelial cell lines of tumorigenic and non-tumorigenic origin. *International Journal of Biochemistry and Cell Biology*, **2002** , 34, 1051-8 | 5.6 | 28 |
| 13 | Activation of the peroxisome proliferator-activated receptor-alpha enhances cell death in cultured cerebellar granule cells. *Journal of Neuroscience Research*, **2001**, 66, 236-41 | 4.4 | 14 |
| 12 | Peroxisome proliferator-activated receptors in tumorigenesis: targets of tumour promotion and treatment. *Immunology and Cell Biology*, **2000**, 78, 436-41 | 5 | 61 |
| 11 | Development of a real-time RT-PCR assay for plasma membrane calcium ATPase isoform 1 (PMCA1) mRNA levels in a human breast epithelial cell line. *Journal of Pharmacological and Toxicological Methods*, **2000**, 44, 513-7 | 1.7 | 3 |
| 10 | PMCA1 mRNA expression in rat aortic myocytes: a real-time RT-PCR study. *Biochemical and Biophysical Research Communications*, **2000**, 276, 1024-7 | 3.4 | 12 |
| 9 | Characterization of peroxisome proliferator-activated receptor alpha in normal rat mammary gland and 2-amino-l-methyl-6-phenylimidazo[4, 5-b]pyridine-induced mammary gland tumors from rats fed high and low fat diets. *Toxicology Letters*, **2000**, 118, 79-86 | 4.4 | 21 |
| 8 | mRNA differential display of 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine-induced rat mammary gland tumors. *Breast Cancer Research and Treatment*, **1998**, 51, 99-107 | 4.4 | 5 |
| 7 | Proliferation, development and DNA adduct levels in the mammary gland of rats given 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine and a high fat diet. *Carcinogenesis*, **1998**, 19, 1209-15 | 4.6 | 21 |

| | | | |
|---|---|---|---|
| 6 | Effect of dietary fat on codon 12 and 13 Ha-ras gene mutations in 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine-induced rat mammary gland tumors. *Molecular Carcinogenesis*, **1997**, 20, 348-54 | 5 | 23 |
| 5 | Characterisation of CYP3A gene subfamily expression in human gastrointestinal tissues. *Gut*, **1995**, 36, 259-67 | 19.2 | 105 |
| 4 | The catalytic activity of four expressed human cytochrome P450s towards benzo[a]pyrene and the isomers of its proximate carcinogen. *Biochemical and Biophysical Research Communications*, **1993**, 192, 1373-9 | 3.4 | 54 |
| 3 | Stereochemistry of the major rat liver microsomal metabolites of the carcinogen 7-methylbenz[c]acridine. *Chemical Research in Toxicology*, **1991**, 4, 546-55 | 4 | 8 |
| 2 | Photochemical studies on the anti-inflammatory drug diclofenac. *Photochemistry and Photobiology*, **1990**, 52, 685-90 | 3.6 | 65 |
| 1 | Activation of the food-derived mutagen 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine by rabbit and human liver microsomes and purified forms of cytochrome P-450. *Carcinogenesis*, **1989**, 10, 357-63 | 4.6 | 71 |